

embodiment of this invention;

Fig. 2a and Fig. 2b are flowcharts showing a control process of a main server of this invention; and

Fig. 3 is a flowchart showing a control process of a sub-
5 server of this invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Fig. 1 is a block diagram showing a digital literary work
10 sharing system for protecting against an illegal reproduction through a communication network according to the present invention. Referring to Fig. 1, the system comprises a main server 10, one or more sub-servers 20-1 through 20-n, a network interface unit 30, a premise communication network 40,
15 at least one P2P list providing server 100, one or more P2P agent servers 110-1 through 110-n, one or more user terminals 200-1 through 200-n, and a data communication network 300.

The main server 10 accesses a P2P(Peer to Peer) Sharing Web(hereinafter, referred to as P2P Web), searches for a
20 digital literary work shared through the Sharing Web according to a predetermined search condition, and receives the searched digital literary work. Then, the main server 10 determines whether or not the searched digital literary work has an identifier, decides which digital literary work is to be
25 shared among the digital literary works, which are inputted by

a supervisor and have a identifier, according to the determination result and literary work information requiring the protection and inputted by the supervisor, and generates an accessing information of the P2P Web.

5 The sub-servers 20-1 through 20-n are connected to the main server 10, receive the information of the digital literary works decided to be shared and the accessing information of the P2P Web from the main server 10, access the P2P Web depending on the accessing information, and allow the 10 users to share the digital literary works decided to be shared through the P2P Web.

The network interface unit 30 is an intermediary, which connects the main server 10 and the sub-servers 20-1 through 20-n to the data communication network 300 and performs data 15 communication. For example, the network interface unit 30 may be preferably selected from a CSU(Channel Service Unit) or a DSU(Digital Service Unit), and may include a router and etc.

The premise communication network 40 connects the main server 10, the sub-servers 20-1 through 20-n and the network 20 interface unit 30 to each other, and may be a LAN(Local Area Network) for example.

The P2P list providing server 100 provides a list information of the P2P Web(for example, IP address of an agent server for mediating the P2P Web and port number). The P2P 25 agent servers 110-1 through 110-n form the P2P Sharing Web in

the network 300, and mediate a sharing of the digital literary work between the subscribers(or users) through the P2P Web.

The user terminals 200-1 through 200-n are the computer terminals which enable the users to be connected to the P2P agent servers 110-1 through 110-n through the data communication network 300, access the P2P Web through the P2P agent servers 110-1 through 110-n, and exchange the digital literary works through the P2P Web.

The data communication network 300 is a wide area communication network that performs the data communication between the network interface unit 30, the P2P list providing server 100, the P2P agent servers 110-1 through 110-n, and the user terminals 200-1 through 200-n. For example, the network 300 may be an "Internet".

The servers 10, 20-1 through 20-n, 100, 110-1 through 110-n and the user terminals 200-1 through 200-n have a general hardware device(not shown) included in a computer system, such as a main processor, a network adapter, a display adapter, a main memory and an auxiliary memory, and an operating system(OS). The specific construction and operation of the servers 10, 20-1 through 20-n, 100, 110-1 through 110-n and the user terminals 200-1 through 200-n is well known in the field and further explanation is thus not deemed necessary.

Hereinafter, an operation sample of the present invention